

ABSTRACT

A device and method of harvesting a crop using positive and negative air pressure that is produced within a partially closed area. Air flow that is produced by the positive and negative air pressure severs the crop from the remainder of the plant. A vacuum is introduced into one or more collection chambers. Air is introduced into the collection chamber by the application of positive air pressure. The negative pressure, or vacuum, is applied to the collection chamber through vacuum conduits or tubes that communicate with one or more collection ports. A crop, such as a cotton boll, is exposed to the collection port, and is pulled from a plant and harvested by vacuum, and is transported by the vacuum conduits or tubes to a hopper or other collection area. The geometry of the collection chamber facilitates harvesting of the crop.